

Combined resistance to multiple antibiotics: A growing problem in the EU

November 15 2017

On the occasion of the 10th European Antibiotic Awareness Day, the European Centre for Disease Prevention and Control (ECDC) is releasing its latest EU-wide data on antibiotic resistance, as well as its guidance on prevention and control of carbapenem-resistant Enterobacteriaceae (CRE). In 2016, combined resistance to several antibiotic groups continued to increase for *Escherichia coli* and *Acinetobacter* species. This situation is of great concern as patients infected with these multidrug-resistant bacteria have very limited treatment options.

Vytenis Andriukaitis, European Commissioner for Health and Food Safety, said: "with increasing <u>resistance</u> even to last-line antibiotics we face a frightening future where routine surgery, childbirth, pneumonia and even skin infections could once again become life threatening. To preserve our ability to effectively treat infections in humans and animals, we need to bridge differences between EU Member States and raise the level of all of them to that of the highest performer". He added: "that is the key objective of the new EU One Health action plan against AMR adopted this June. It focuses on areas that support and add value to Member States' actions to deliver innovative, effective and sustainable responses to AMR. It is only by working together at European and international level, collaborating and cooperating across all relevant sectors, that we can control and reverse AMR".

For *Escherichia coli*, combined resistance, measured as resistance to fluoroquinolones, third-generation cephalosporins and aminoglycosides,



increased significantly between 2013 and 2016. Furthermore, in 2016, high percentages of *Acinetobacter* species isolates, with combined resistance to carbapenems, aminoglycosides and fluoroquinolones, were reported in southern and south-eastern Europe, as well as the Baltic countries.

Nevertheless, it is encouraging to see that long-term efforts are slowly leading to positive results and that it is still possible to reverse the trends: the latest ECDC data indicate that the overall resistance situation for *Klebsiella pneumoniae* seems to be stabilising in Europe, although this was not always observed at national level, with some countries still showing an increase in combined resistance. Furthermore, the percentage of meticillin-resistant *Staphylococcus aureus* (MRSA) further decreased between 2013 and 2016. However, MRSA remains an issue as 10 out of 30 countries still report high percentages.

Andrea Ammon, ECDC Director, stated: "even though we are starting to see some slight progress, we need to remain vigilant and work even harder to reduce the levels of <u>antibiotic resistance</u>. There are still significant increases in combined resistance for *Escherichia coli* and *Acinetobacter* species throughout Europe, and this situation is of great concern as patients infected with these multidrug-resistant bacteria have very limited treatment options". She added: "prudent antibiotic use and comprehensive infection prevention and control strategies targeting all healthcare sectors are fundamental. This is why today, ECDC is also launching its guidance on carbapenem-resistant Enterobacteriaceae".

Zsuzsanna Jakab, WHO Regional Director for Europe said:
"antimicrobial resistance is increasingly widespread in the WHO
European Region as resistant microbes know no borders. Effective
infection prevention and control is one of our most powerful weapons to
address this global health threat". She noted: "On this year World
Antibiotic Awareness Week, WHO calls on health workers in the



European Region to prevent the spread of antimicrobial resistance in health care settings through proper hand hygiene".

Resistance to carbapenems, an important last-line antibiotic group, continues to be reported mostly by countries with already high levels of multidrug-resistant bacteria. In these countries, the options to treat patients with carbapenem-resistant Enterobacteriaceae (CRE) infections are often limited to combination therapy and older antibiotics, such as colistin. The further emergence of resistance to colistin is a serious warning that options are becoming even more limited. Resistance percentages varied widely across Europe, being generally higher in southern and south-eastern Europe than in northern Europe.

Provided by European Centre for Disease Prevention and Control (ECDC)

Citation: Combined resistance to multiple antibiotics: A growing problem in the EU (2017, November 15) retrieved 6 May 2024 from https://medicalxpress.com/news/2017-11-combined-resistance-multiple-antibiotics-problem.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.